User Manual

monitorCUE

Version 01

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User Manual monitorCUE
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1. Introduction

1.1. Overview

There simply isn't a more attractive 15" tabletop touch monitor than the beautiful and elegant monitorCUE. Designed to blend with even the most critical environments, the beautiful enclosure is crafted from solid wood with stainless steel trim and is available in your choice of mahogany, birch, white birch or oak finishes. But the beauty of the monitorCUE is more than skin deep. This 15" touch-sensitive active-matrix color LCD screen produces stunning images and graphics in true color at 1024x768 resolution. Innovative design features like the easy-to-adjust, 0 – 80 degrees tilting mechanism provides a level of elegance and capability not available with any other touch monitor. The state-of-the-art monitorCUE is ideal for applications in audio, video, lighting and environmental control providing the ultimate solution for boardrooms, conference rooms and residential systems.

1.2. Models

Model	Product code	Description
monitorCUE	CS0203-B	Birch enclosure
monitorCUE	CS0203-M	Mahogany enclosure
monitorCUE	CS0203-O	Oak enclosure
monitorCUE	CS0203-W	White birch enclosure

1.3. Features

- 15" diagonal color TFT LCD display
- Touch sensor
- Screen resolution 1024 x 768 pixels
- Adjustable screen tilt
- Power supply 24 VDC
- Wood - stainless steel enclosure

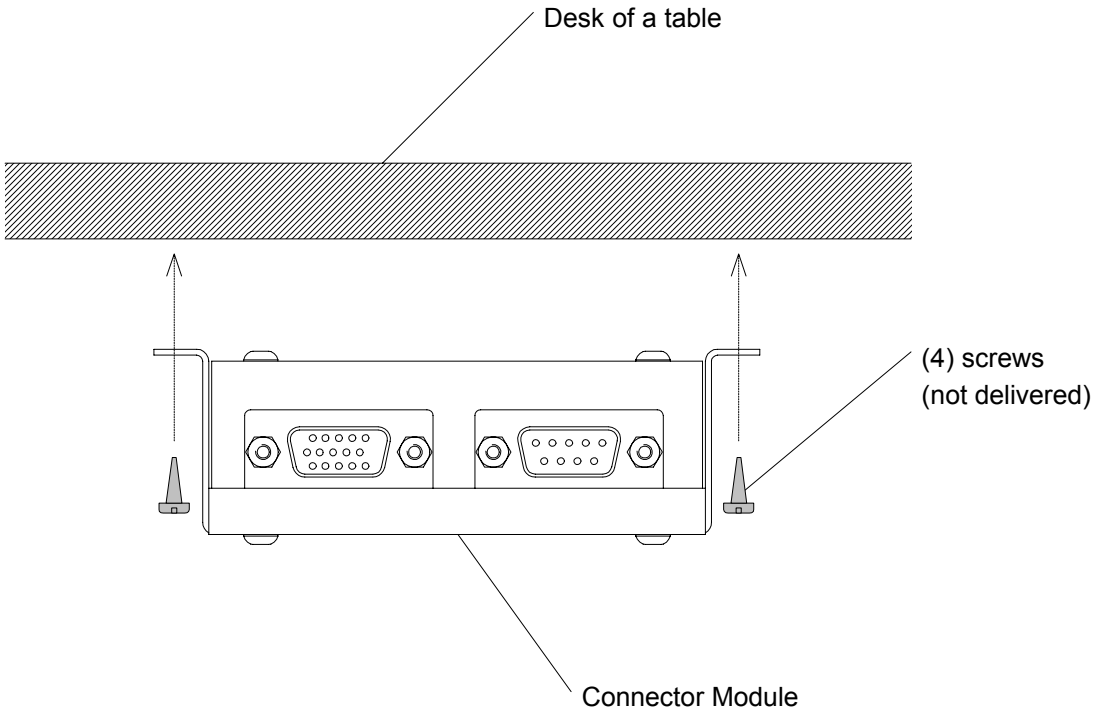
2. Mounting

The monitorCUE consists of

- Monitor
- Connector Module.

The Monitor is a tabletop device and there are no special mounting requests.

The Connector Module is a small box which can be mounted under desk of a table using (4) screws (not delivered) - see following picture.



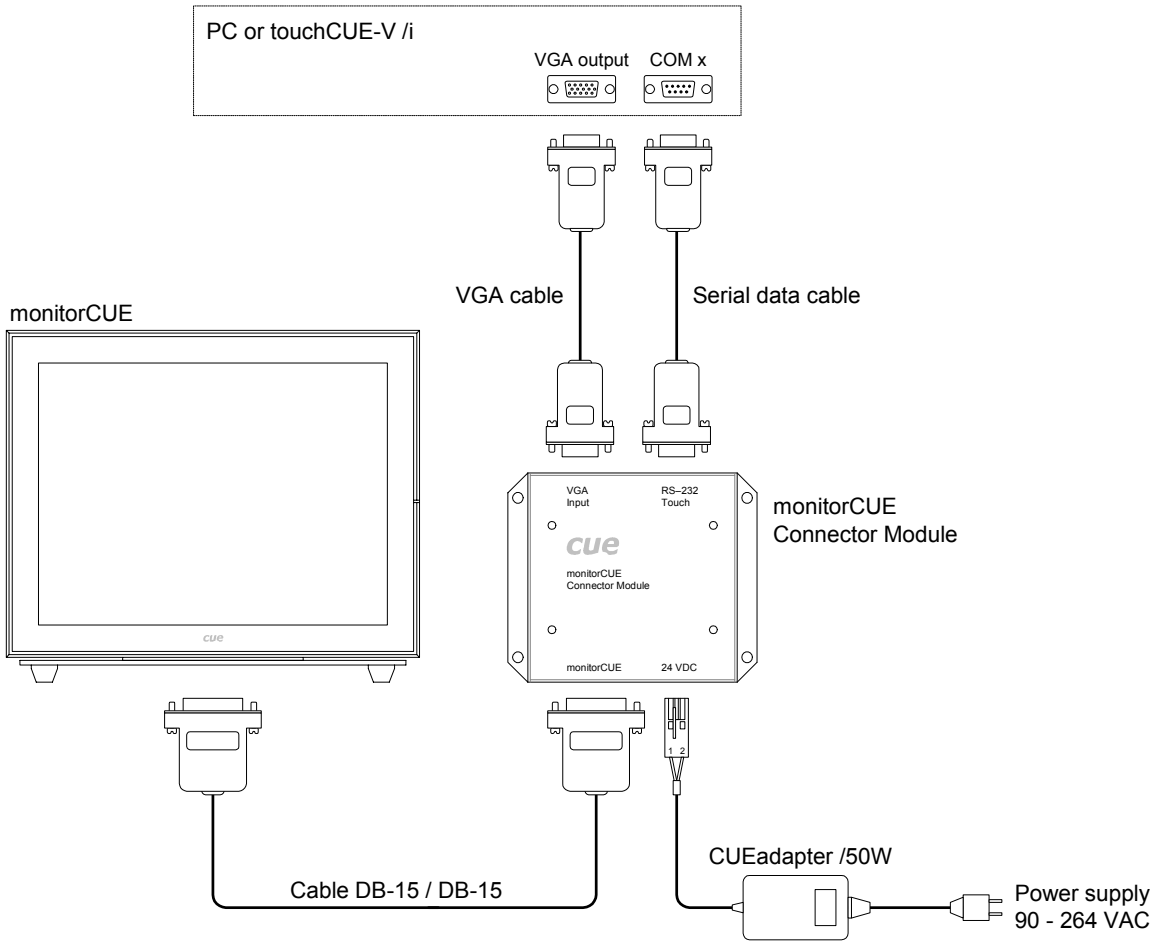
3. Connecting

3.1. General

The monitorCUE uses the Connector Module for connection of all inputs and outputs. The Connector Module is connected to the tabletop part via one cable.

On the Connector Module there are following connectors

- **VGA Input** allows a connection of a standard VGA output using VGA cable (delivered).
- **RS-232 Touch** is an output of touch sensor. Connection can be made by a data cable RS-232 (delivered).
- The connector labeled **24 VDC** allows a connection of the standard power supply CUEadapter /50W (delivered).
- **monitorCUE** is a connector dedicated for a connection of the tabletop part.



3.2. Input Video and Sync Signal

3.2.1. Video

Input

- Type: Analog RGB
- Level: 0.7 Vp-p ±5%
- Polarity: Positive bright
- Impedance: 75 Ω ±10% (terminated)

Resolution: optimum 1024 x 768 @ 60 Hz, maximum 1024 x 768 @ 75 Hz

Horizontal frequency: 30 - 61 kHz (normal mode)

Vertical frequency: 55 - 76 Hz (normal mode)

Applicable bandwidth: typical 65 MHz (1024 x 768 @ 60 Hz)

Sync signal

- Type: separate H/V sync
- Level: TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)
- Polarity: positive or negative
- Termination resistance: more than 2 kΩ

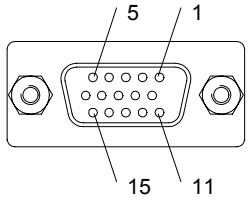
3.2.2. Sync

Input

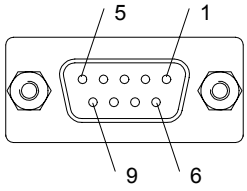
- Type: separate H/V sync
- Level: TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)
- Polarity: positive or negative

3.3. Pin Connections

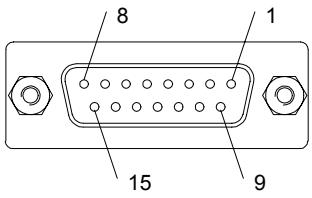
3.3.1. VGA Input

HD-15-female connector		
	Pin 1	Red
	Pin 2	Green
	Pin 3	Blue
	Pin 4	+5 V
	Pin 5	Not used
	Pin 6	Red GND
	Pin 7	Green GND
	Pin 8	Blue GND
	Pin 9	+5 V
	Pin 10	GND
	Pin 11	+5 V
	Pin 12	I2C SDA
	Pin 13	H Sync
	Pin 14	V Sync
	Pin 15	I2C SCL

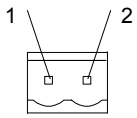
3.3.2. RS-232 Touch

DB-9-female connector		
	Pin 1	+5 V
	Pin 2	TxD
	Pin 3	RxD
	Pin 4	Not used
	Pin 5	GND
	Pin 6	+5 V
	Pin 7	Not used
	Pin 8	+5 V
	Pin 9	Not used

3.3.3. monitorCUE

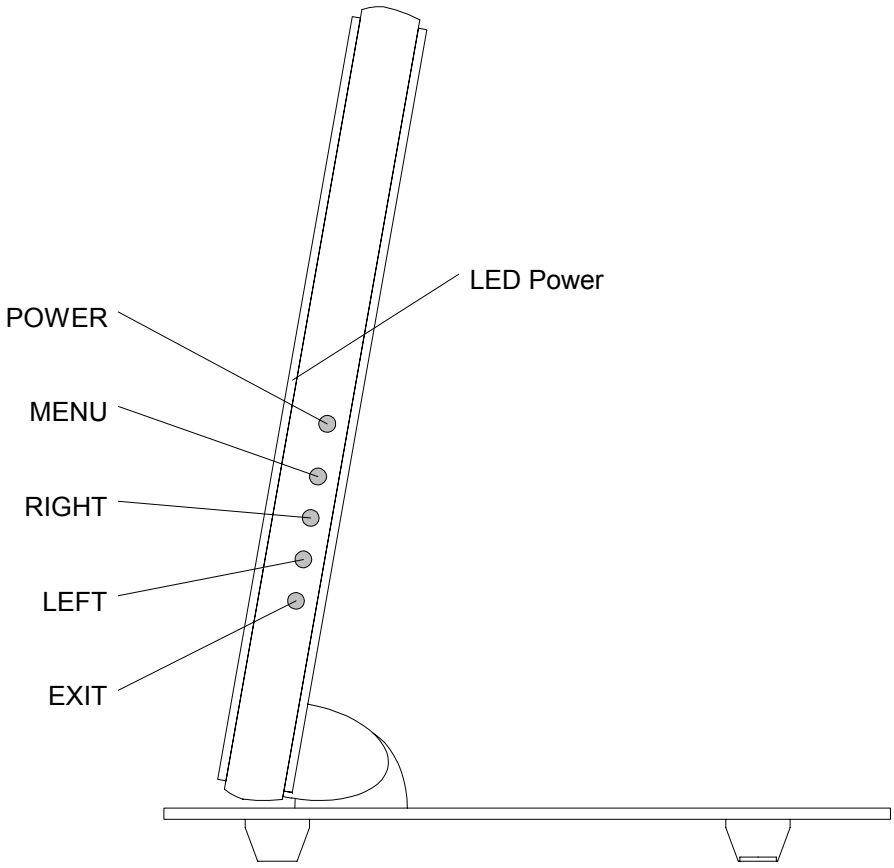
DB-15-female connector		
	Pin 1	I2C SCL
	Pin 2	H Sync
	Pin 3	RxD
	Pin 4	Blue
	Pin 5	Green
	Pin 6	Red
	Pin 7	GND
	Pin 8	+12 V
	Pin 9	I2C SDA
	Pin 10	V Sync
	Pin 11	TxD
	Pin 12	Blue GND
	Pin 13	Green GND
	Pin 14	Red GND
	Pin 15	GND

3.3.4. Power 24 VDC

2-pin connector		
	Pin 1	+24 VDC
	Pin 2	Ground

4. Indicator and Buttons

On the picture below you can see the position of the indicator and buttons.



- **LED Power** indicates the status of a monitor operation - green is on, red is off.
- Button **POWER** turns on and off the monitor power.
- Buttons **MENU**, **RIGHT**, **LEFT** and **EXIT** allow to control an on screen display (OSD) menu. The OSD menu is described in the following section.

5. On Screen Display Menu

An on screen display (OSD) menu serves for a setting of monitor parameters and it can be activated by the button **MENU**. If OSD menu is running the function of the buttons are as follows

Button **MENU**

- Selects the function to be adjusted.

Button **RIGHT**

- Moves the selector right on the OSD menu.
- Increase the value of selected adjustment.
- Selects proper setting.

Button **LEFT**

- Moves the selector left on the OSD menu.
- Decrease the value of selected adjustment.
- Selects proper setting.

Button **EXIT**

- Exit from the OSD function or back to previous menu.

6. Cleaning

You should clean the screen overlay after each day's use.

Materials required are

- Two clean, soft texture cloths (cotton).
- Spray bottle of cleaning solution without alcohol (window cleaner).
- Stainless steel parts of a device should be cleaned using a special cleaning solution, for example 3M Stainless Steel Cleaner & Polish, SS9100 2648 3.

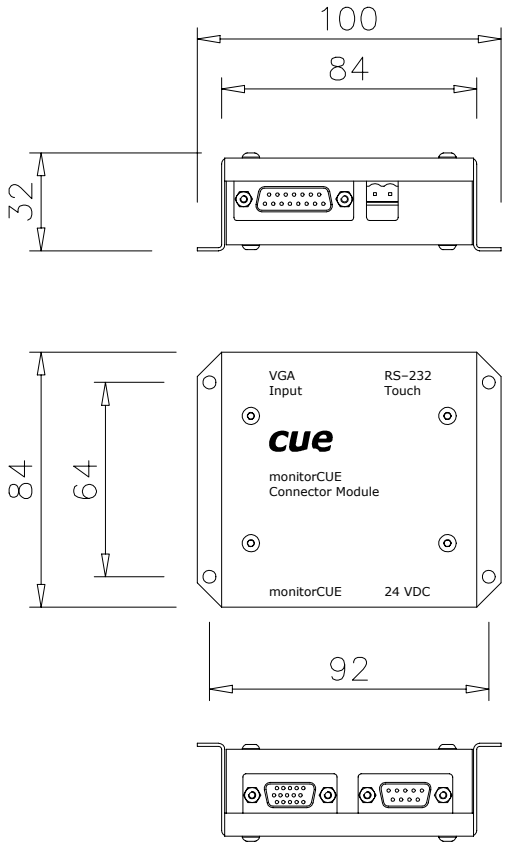
Steps are

1. Turn the device off.
2. Spray a small amount of the cleaning solution onto one of the cloths.
3. Clean the device overlay with the damp cloth.
4. Wipe the device overlay with the dry cloth.

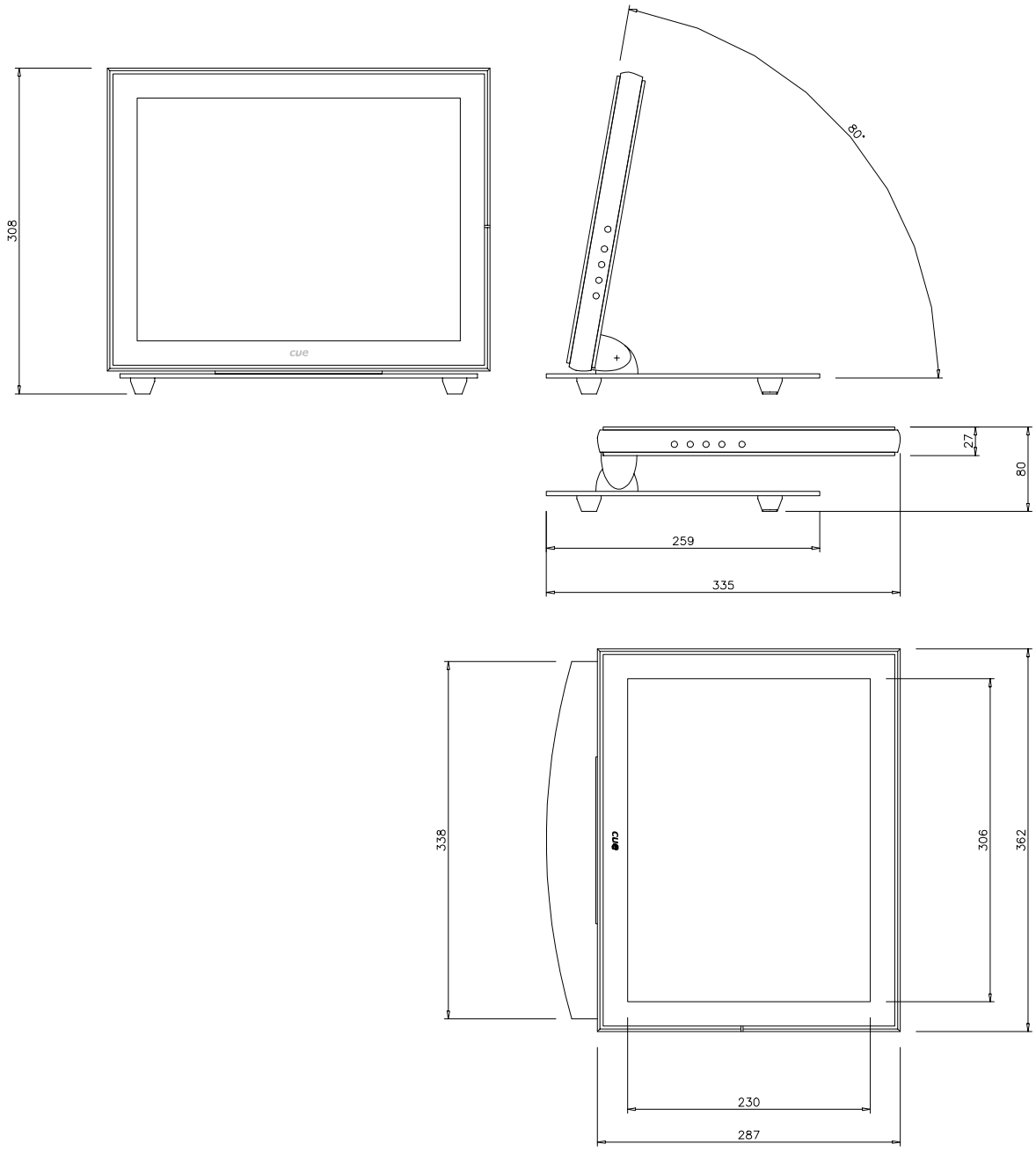
7. Specifications and Mechanical Drawings

Display type	Color TFT LCD
Screen dimensions	15“ / 381 mm diagonal
Screen resolution	1024 x 768 pixels (native)
Colors	16.2 M (True Color)
Screen tilt	Adjustable 0 - 80 degrees
Input	VGA, HD-15-female connector
Horizontal frequency	30 – 61 kHz
Vertical frequency	55 – 75 Hz
Touch sensor connection	RS-232, DB-9-female connector
Power supply	24 VDC (+/- 20%), 40 W
Enclosure	Wood - stainless steel
Dimensions (WxHxD)	362 mm (14.3”) x 287 mm (11.3”) x 335 mm (13.2”)
Weight	8 kg / 17.6 lb
Supplied accessories	VGA cable, serial data cable, CUEadapter /50 W

All dimensions are in mm.



All dimensions are in mm.



8. Software and Firmware License

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9. Warranty Conditions

Warranty Duration

CUE provides warranty for all CUE products for a period of 3 years from the day of purchase. The provided warranty for touch screens is 2 years from the day of purchase. CUE accepts reclamation of 5 not properly working dots and more (2 dots join – 1 counts). The warranty provided for rechargeable accumulators is 6 months from the day of purchase

Liability

CUE is not liable for any consequential damage caused by CUE products including any loss of profits, incidental or consequential damages or any claims made by a third parties.

General Warranty Terms

a) CUE warrants that its products are without defects in material and are fully functional for the duration of the warranty.
b) Warranty repairs are free of charge. The customer will send the damaged device to CUE at his cost.
c) All warranty repairs and after warranty services are made at CUE premises. It is strictly prohibited to repair CUE products or to change any accessory parts, except those parts with limited service life. CUE is not liable for consumables or parts with limited service life (lamps, batteries etc.)
d) The warranty further does not apply to the following cases
    - Damages caused by operating the system not according to the conditions defined in user manual or instruction (wrong power supply voltage, operation outside deferred temperature range, operation in humid environment and mechanical damages).
    - Damages caused by faulty service, maintenance, connection, and use of other than original connection cable.
    - Damage caused by agencies i.e. incidental or unpredictable impacts (fire, earthquake, flood, thunder, strong electric induction, water, strong wind, theft, vandalism etc.)

After Warranty Services

a) All warranty repairs are normally on a ‘back to base’ basis, as defined in 3 c)
b) All out warranty repair costs will be fully charged to the customer.
c) In cases where our staff are called out to assist, cost of transport and time will be at customer cost

10. CE Declaration of Conformity

We, the producer
CUE spol. s r. o., Na Dolinách 6, Praha 4, Czech Republic
acknowledge our sole responsibility, that the product incl. accessories

Kind of equipment

Remote Control System

Type designation

CS0197 touchCUE-L 99, CS0159 touchCUE 99, CS0157 touchCUE-S 99,
CS0183 touchCUE-V, CS0198 touchCUE-L, CS0200 touchCUE-M, CS0176 touchCUE-MM, CS0122 touchCUE,
CS0142 touchCUE-S,
CS0178 touchCUE-V /t, CS0199 touchCUE-L /t, CS0204 touchCUE-M /t, CS0143 touchCUE-S /t,
CS0158 touchCUE-S /w, CS0224 touchCUE-S /d,
CS0205 touchCUE-M /r, CS0144 touchCUE-S /r
ST0007 Guide, CS0188 touchCUE-SRF, CS0171 rfbaseCUE,
ST0013 monitorCUE-V, CS0203 monitorCUE, CS0190 touchCUE-V /i, CS0151 PC Interface 485
CS0170 rfCUE 99, CS0170 rfCUE 99, CS0149 irCUE 99, CS0133 irCUE, CS0080 irCUE Receiver,
CS0169 irCUE Receiver 485,
CS0221 keypadCUE-1G, CS0222 keypadCUE-2G, CS0223 keypadCUE-3G,
CS0145 keyboardCUE 99, CS0128 keyboardCUE, CS0174 keyboardCUE-S, CS0129 keyboardCUE /t,
CS0146 keyboardCUE-S /w, CS0130 keyboardCUE /r, CS0191 inputCUE,
CS0173 eCUE
CS0051 Assistant, CS0150 Assistant-S, CS0100 PC Card, CS0227 CUEwire Splitter,
CS0008 smartCUE, CS0201 sbiCUE-DMX, CS0009 soundCUE, CS0004 analogCUE, CS0005 auxCUE,
CS0165 PED202, CS0166 PEF200, CS0167 PER610, CS0163 PEC25, CS0225 PEA208, CS0164 PED108,
CS0184 CUEadapter /10W, CS0226 CUEadapter /20W, CS0185 CUEadapter /50W, CS0186 CUEadapter /80W,
CS0168 PES03, CS0016 powerAUX,
PT0005 Cue Director, PT0004 Teach-In, PT0006 WinKit

in accordance with **EMC Directive 89/336/EEC**,is in compliance with the following norms or documents:
EN50082-1 (IEC801-2), IEC65(CO)39, DIN VDE 0839 part 82-1, DIN VDE 0843 part 4, IEC801-4,
EN50081-1 EN55022 class B, DIN VDE 0839 part 81-1, EN55014, EN55011.

Jaroslav Dibitanzl

Member of Board of Directors

11. FCC

Caution

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Notes

Notes